

WEST



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L1: Entry 45 of 62

File: USPT

Apr 23, 1991

DOCUMENT-IDENTIFIER: US 5010073 A

TITLE: Use of liposomes as carriers for metalloporphyrins

## BSPR:

Attempts have been made to target the porphyrin compounds to different sites or organs in mammals. For example, G. Jori et al in their article on "Controlled Targeting of Different Subcellar Sites by Porphyrins in Tumor-bearing Mice," Brit. J. Cancer, Vol. 53, pp. 615-621 (1986), disclose that intraperitoneal injection of liposome-bound porphyrins to mice results in more efficient tumor targeting than that obtained by administration of the same porphyrins dissolved in homogeneous aqueous solutions. These investigators were not concerned with selective targeting of normal body organs of tissue enzymes. Indeed, in a later article on "Utilization of Liposomes and Low Density Lipoproteins and Porphyrin Carriers in Experimental Photodynamic Therapy," First International Conference on the Clinical Applications of Photosensitization for Diagnosis and Treatment, Tokyo, Japan (1986), Jori discloses that the administration of liposome-vehiculated hematoporphyrin (Hp) to the tumor tissue and to the organs of the reticuloendothelial system of mice did not result in any specificity of Hp localization although it did result in larger accumulation of Hp in the tumor.

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L1: Entry 42 of 62

File: USPT

May 25, 1993

DOCUMENT-IDENTIFIER: US 5214036 A

TITLE: Benzoporphyrin derivatives for photodynamic therapy

## BSPR:

This invention relates generally to the treatment of tumors using the process of photodynamic therapy (PDT). In particular, the invention relates to methods of administering green porphyrins (Gp) in combination with plasma lipoproteins or liposomes ("lipocomplexes") so as to improve transport and delivery to tumors with enhanced cytotoxicity. The invention further relates to Gp-lipocomplex compositions for use in the aforementioned methods.

**WEST**☐ Generate Collection

L1: Entry 41 of 62

File: USPT

Nov 2, 1993

DOCUMENT-IDENTIFIER: US 5257970 A  
TITLE: In situ photodynamic therapy

## ABPU:

1) separately encapsulating at least one activation component for said photodynamic therapy process in a liposome;

## BSPR:

1) separately encapsulating the separate components of an activation system for photodynamic therapy in heat-sensitive liposomes;

## DEPR:

It is the process of this invention, to 1) encapsulate the components of the activating systems for photodynamic therapy separately in heat-sensitive liposomes (see e.g., Radiation Research 122: 161, 1990); 2) inject the liposome encapsulated materials systemically, and 3) `melt` the liposomes (41.degree.-45.degree. C.) selectively at the tumor site using direct heat-producing systems. When the liposomes are co-melted at the tumor site, mixing of the `activator system` (generally two or three or more component systems) occurs causing a) light emission and absorption by the previously injected photosensitizer; b) energy transfer to the previously injected photosensitizer; or c) direct formation of a cytotoxic species.

## CLPV:

1) separately encapsulating at least two activation components for said photodynamic therapy process in a liposome;

## CLPV:

1) separately encapsulating at least two activation components for said photodynamic therapy process in a liposome;

**WEST**

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L1: Entry 40 of 62

File: USPT

Jan 11, 1994

DOCUMENT-IDENTIFIER: US 5277913 A

TITLE: Liposomal delivery system with photoactivatable triggered release

BSPR:

Yet another object is to provide an improved liposome suitable for use in photodynamic therapy.

DEPR:

PlasPPC/DPPC (9:1 mol/mol) vesicles for photodynamic studies were prepared by dissolving dry lipids in chloroform and removing the solvent with a stream of argon. The resultant lipid film was then dried under vacuum for 1-2 hours to remove entrapped solvent. An ethanolic stock solution of ZnPC was prepared by dilution from a 5 mM pyridine solution of the sensitizer. Then, 100-200 .mu.l of the ethanolic ZnPC was added to 2.8 ml of 20 mM Tris, pH 8, containing 165 mg of glucose (.about.0.3 M). The suspension was warmed to 45.degree. C., vortexed, and put through five freeze-thaw cycles with the liposomes. Finally, the suspension was extruded ten times through stacked 0.08-micron Nucleopore filters using a Lipex Biomembranes Extruder thermostated at 47.degree. C. Unentrapped sensitizer and glucose were removed by passage down a small buffer-equilibrated Sephadex G-25 column. UV-vis analysis (after solubilization with 10% Triton X-100) and phosphorus assay as described by Petitou, Anal. Biochem. 91:350-53 (1978) indicated that the concentration of ZnPC and lipid in these vesicles was 0.05-0.1 .mu.M and 4.8 mM, respectively.

DEPR:

While the type II production of singlet O.sub.2 is thought to be the predominant mechanism in many photodynamic sensitizations, the type I free radical pathway can become important under certain conditions. These include membrane binding of the sensitizer, high lipid/oxygen ratios in the immediate environment of the sensitizer, and high light intensity. When added to PC liposomes, ZnPC is thought to be localized in the hydrophobic bilayer interior. The inventors also believe that the ZnPC dye is similarly incorporated into the bilayer of plasmenycholine liposomes such that the local concentration of lipid is high. Hence, the type I pathway may play an important role in ZnPC sensitization of the liposomes of the present invention.

DEPR:

This Example describes the use of AlClPCs sensitizer, a water-soluble phthalocyanine localizing in the aqueous core of the vesicle, to produce photomodifications of plasmalogen liposomes via photodynamic mechanisms. The structural formula of the photosensitizer AlClPCs used in this study is shown below. ##STR8##

**WEST**

Generate Collection

L1: Entry 39 of 62

File: USPT

Mar 29, 1994

DOCUMENT-IDENTIFIER: US 5298502 A

TITLE: Method and composition for photodynamic treatment and detection of tumors

## BSPR:

The porphyrin material may also be incorporated into a liposome and injected (e.g. intraperitoneally), as disclosed for instance in Spikes et al., "Photodynamic Behavior of Porphyrins in Model Cell, Tissue and Tumor Systems"; in Photodynamic Therapy of Tumors and Other Diseases (Edited by G. Jori and C.A. Perria); pages 45-53; Libreria Progetto, Padua (1985), and references cited therein.

**WEST**

Generate Collection

L1: Entry 37 of 62

File: USPT

Feb 14, 1995

DOCUMENT-IDENTIFIER: US 5389378 A

TITLE: Benzoporphyrin vesicles and their use in photodynamic therapy

## BSPR:

The present invention relates to the discovery that benzoporphyrin derivatives (BPD), for example, diacids and monoacids and in particular, Monoacid A, which are otherwise insoluble in aqueous systems, may be incorporated into liposomes at high drug to lipid ratios. These pharmaceutical compositions of the present invention are especially useful for treating cancerous tissue by the therapeutic technique known as photodynamic therapy. These compositions are also useful as anti-viral agents.

## CLPR:

1. A composition for treating cancerous tissue with photodynamic therapy consisting of a photosensitizing effective mount of a benzoporphyrin, which is not complexed to a metal, in liposomes, and a pharmaceutical carrier, wherein said benzoporphyrin is selected from the group consisting of benzoporphyrin monoacid A, monoacid B, diacid A, diacid B and mixtures thereof, and wherein said composition has a benzoporphyrin to lipid ratio greater than 100 .mu.g benzoporphyrin per mole lipid.

## CLPR:

14. A method for treating cancerous tissue using photodynamic therapy in a patient comprising administering to said patient a composition consisting of a photosensitizing effective amount of a benzoporphyrin, which is not complexed to a metal, in liposomes, and a pharmaceutical carrier, wherein said benzoporphyrin is selected from the group consisting of benzoporphyrin monoacid A, monoacid B, diacid A, diacid B and mixtures thereof, and wherein said composition has a benzoporphyrin to lipid ratio greater than 100 .mu.g benzoporphyrin per mole lipid.

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 12 of 12 returned.**☐ 1. Document ID: US 6270749 B1

L2: Entry 1 of 12

File: USPT

Aug 7, 2001

US-PAT-NO: 6270749

DOCUMENT-IDENTIFIER: US 6270749 B1

TITLE: Use of Texaphyrin in ocular diagnosis and therapy

DATE-ISSUED: August 7, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blumenkranz; Mark S.	Portola Valley	CA	N/A	N/A
Woodburn; Kathryn W.	Sunnyvale	CA	N/A	N/A
Miller; Richard A.	Portola Valley	CA	N/A	N/A
Young; Stuart W.	Portola Valley	CA	N/A	N/A

US-CL-CURRENT: [424/9.61](#); [424/9.6](#), [514/185](#), [514/912](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw Desc	Image
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☐ 2. Document ID: US 6176842 B1

L2: Entry 2 of 12

File: USPT

Jan 23, 2001

US-PAT-NO: 6176842

DOCUMENT-IDENTIFIER: US 6176842 B1

TITLE: Ultrasound assembly for use with light activated drugs

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tachibana; Katsuro	Fukuoka	N/A	N/A	JPX
Tachibana; Shunro	Fukuoka	N/A	N/A	JPX
Anderson; James R.	Redmond	WA	N/A	N/A
Lichttenegger; Gary	Woodinville	WA	N/A	N/A

US-CL-CURRENT: [604/22](#); [604/101.03](#), [604/102.03](#), [604/103.01](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Draw Desc	Image
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☐ 3. Document ID: US 6074643 A

L2: Entry 3 of 12

File: USPT

Jun 13, 2000

US-PAT-NO: 6074643

DOCUMENT-IDENTIFIER: US 6074643 A

TITLE: Site-directed chemotherapy of metastases

DATE-ISSUED: June 13, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barbera-Guillem; Emilio	Columbus	OH	N/A	N/A

US-CL-CURRENT: 424/178.1; 424/1.49, 424/182.1, 424/183.1, 436/827, 514/23

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KIMC	Draw Desc	Image
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☐ 4. Document ID: US 6074666 A

L2: Entry 4 of 12

File: USPT

Jun 13, 2000

US-PAT-NO: 6074666

DOCUMENT-IDENTIFIER: US 6074666 A

TITLE: Liposome compositions of porphyrin photosensitizers

DATE-ISSUED: June 13, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Desai; Narendra Raghunathji	Danbury	CT	N/A	N/A
Agha; Bushra J.	Durham	NC	N/A	N/A
Kale; Kalidas Madhavrao	Harriman	NY	N/A	N/A

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KIMC	Draw Desc	Image
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☐ 5. Document ID: US 6022526 A

L2: Entry 5 of 12

File: USPT

Feb 8, 2000



US-PAT-NO: 6022526  
DOCUMENT-IDENTIFIER: US 6022526 A

TITLE: Use of texaphyrins in detection of melanin and melanin metabolites  
diagnostic of melanotic melanoma

DATE-ISSUED: February 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Woodburn; Kathryn W.	Sunnyvale	CA	N/A	N/A
Young; Stuart W.	Portola Valley	CA	N/A	N/A

US-CL-CURRENT: 424/9.61; 424/1.11, 424/1.65, 424/9.1, 424/9.3, 424/9.6, 435/7.1,  
435/7.23, 436/518, 436/58, 436/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMNC	Draw Desc	Image
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☐ 6. Document ID: US 5776925 A

L2: Entry 6 of 12

File: USPT

Jul 7, 1998

US-PAT-NO: 5776925  
DOCUMENT-IDENTIFIER: US 5776925 A

TITLE: Methods for cancer chemosensitization

DATE-ISSUED: July 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Young; Stuart W.	Portola Valley	CA	N/A	N/A
Miller; Richard A.	Portola Valley	CA	N/A	N/A

US-CL-CURRENT: 514/185; 514/2, 514/245, 514/28, 514/32, 514/386, 514/410,  
514/43, 514/44, 514/517, 514/564, 514/567, 514/589, 514/590, 514/6, 514/8,  
514/81

Full	Title	Citation	Front	Review	Classification	Date	Reference	KMNC	Draw Desc	Image
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☐ 7. Document ID: US 5775339 A

L2: Entry 7 of 12

File: USPT

Jul 7, 1998

US-PAT-NO: 5775339

DOCUMENT-IDENTIFIER: US 5775339 A

TITLE: Photodynamic therapy of pigment-related lesions

DATE-ISSUED: July 7, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Woodburn; Kathryn W.	Sunnyvale	CA	N/A	N/A
Fan; Qing	Sunnyvale	CA	N/A	N/A
Young; Stuart W.	Portola Valley	CA	N/A	N/A

US-CL-CURRENT: 128/898; 607/88, 607/901

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☐ 8. Document ID: US 5622945 A

L2: Entry 8 of 12

File: USPT

Apr 22, 1997

US-PAT-NO: 5622945

DOCUMENT-IDENTIFIER: US 5622945 A

TITLE: Rubyrin macrocycles

DATE-ISSUED: April 22, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sessler; Jonathan L.	Austin	TX	N/A	N/A
Morishima; Takashi	Yokohama	N/A	N/A	JPX
Weghorn; Steven J.	Austin	TX	N/A	N/A

US-CL-CURRENT: 514/185; 514/183, 536/18.7, 540/145, 540/465, 540/472, 540/474

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☐ 9. Document ID: US 5410045 A

L2: Entry 9 of 12

File: USPT

Apr 25, 1995

US-PAT-NO: 5410045  
DOCUMENT-IDENTIFIER: US 5410045 A

TITLE: Rubyrin and related expanded porphyrins

DATE-ISSUED: April 25, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sessler; Jonathan L.	Austin	TX	N/A	N/A
Morishima; Takashi	Yokohama	N/A	N/A	JPX
Weghorn; Steven J.	Austin	TX	N/A	N/A

US-CL-CURRENT: 540/472; 540/145

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMIC	Draw Desc	Image
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☐ 10. Document ID: US 5407808 A

L2: Entry 10 of 12

File: USPT

Apr 18, 1995

US-PAT-NO: 5407808  
DOCUMENT-IDENTIFIER: US 5407808 A

TITLE: Method and composition for photodynamic treatment and detection of tumors

DATE-ISSUED: April 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halling; Blaik P.	Yardley	PA	N/A	N/A
Yuhaz; Debra A.	Parlin	NJ	N/A	N/A

US-CL-CURRENT: 435/34; 424/9.61, 435/189, 435/25, 436/63, 436/64, 436/813,  
514/410

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMIC	Draw Desc	Image
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☐ 11. Document ID: US 5389378 A

L2: Entry 11 of 12

File: USPT

Feb 14, 1995

US-PAT-NO: 5389378  
DOCUMENT-IDENTIFIER: US 5389378 A

TITLE: Benzoporphyrin vesicles and their use in photodynamic therapy

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Madden; Thomas D.	Vancouver	N/A	N/A	CAX

US-CL-CURRENT: 424/450; 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMIC	Drawl Desc	Image
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☐ 12. Document ID: US 5298502 A

L2: Entry 12 of 12

File: USPT

Mar 29, 1994

US-PAT-NO: 5298502

DOCUMENT-IDENTIFIER: US 5298502 A

TITLE: Method and composition for photodynamic treatment and detection of tumors

DATE-ISSUED: March 29, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Halling; Blaik P.	Yardley	PA	N/A	N/A
Witkowski; Debra A.	Parlin	NJ	N/A	N/A

US-CL-CURRENT: 514/185; 514/229.2, 514/258, 514/300, 514/312, 514/384, 514/410

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMIC	Drawl Desc	Image
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Terms	Documents
11 and sugar\$	12

Documents, starting with Document:

Display Format:

**WEST**

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**Search Results - Record(s) 1 through 12 of 12 returned.**☐ 1. Document ID: US 6176842 B1

L3: Entry 1 of 12

File: USPT

Jan 23, 2001

US-PAT-NO: 6176842

DOCUMENT-IDENTIFIER: US 6176842 B1

TITLE: Ultrasound assembly for use with light activated drugs

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tachibana; Katsuro	Fukuoka	N/A	N/A	JPX
Tachibana; Shunro	Fukuoka	N/A	N/A	JPX
Anderson; James R.	Redmond	WA	N/A	N/A
Lichttenegger; Gary	Woodinville	WA	N/A	N/A

US-CL-CURRENT: 604/22; 604/101.03, 604/102.03, 604/103.01

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KIMC	Draw Desc	Image
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☐ 2. Document ID: US 6074666 A

L3: Entry 2 of 12

File: USPT

Jun 13, 2000

US-PAT-NO: 6074666

DOCUMENT-IDENTIFIER: US 6074666 A

TITLE: Liposome compositions of porphyrin photosensitizers

DATE-ISSUED: June 13, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Desai; Narendra Raghunathji	Danbury	CT	N/A	N/A
Agha; Bushra J.	Durham	NC	N/A	N/A
Kale; Kalidas Madhavrao	Harriman	NY	N/A	N/A

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KIMC	Draw Desc	Image
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☐ 3. Document ID: US 6010890 A

L3: Entry 3 of 12

File: USPT

Jan 4, 2000

US-PAT-NO: 6010890

DOCUMENT-IDENTIFIER: US 6010890 A

TITLE: Method for viral inactivation and compositions for use in same

DATE-ISSUED: January 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ben-Hur; Ehud	New York	NY	N/A	N/A
Zuk; Maria M.	New York	NY	N/A	N/A

US-CL-CURRENT: 435/173.3; 435/173.1, 435/2

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMC	Draw Desc	Image
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☐ 4. Document ID: US 5723148 A

L3: Entry 4 of 12

File: USPT

Mar 3, 1998

US-PAT-NO: 5723148

DOCUMENT-IDENTIFIER: US 5723148 A

TITLE: Topical pharmaceutical compositions

DATE-ISSUED: March 3, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Love; William Guy	Horsham	N/A	N/A	GB2

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMC	Draw Desc	Image
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☐ 5. Document ID: US 5700482 A

L3: Entry 5 of 12

File: USPT

Dec 23, 1997

US-PAT-NO: 5700482  
DOCUMENT-IDENTIFIER: US 5700482 A

TITLE: Process for the preparation of a liposome dispersion under elevated pressure contents

DATE-ISSUED: December 23, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frederiksen; Lene	Basel	N/A	N/A	CHX
Anton; Klaus	Basel	N/A	N/A	CHX
van Hoogevest; Peter	Riehen	N/A	N/A	CHX

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KIMC	Draw Desc	Image
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☐ 6. Document ID: US 5686488 A

L3: Entry 6 of 12

File: USPT

Nov 11, 1997

US-PAT-NO: 5686488  
DOCUMENT-IDENTIFIER: US 5686488 A

TITLE: Polyethoxylated castor oil products as anti-inflammatory agents

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gamache; Daniel A.	Arlington	TX	N/A	N/A
Graff; Gustav	Cleburne	TX	N/A	N/A
Nixon; Jon C.	Mansfield	TX	N/A	N/A

US-CL-CURRENT: 514/549; 514/552, 514/914

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KIMC	Draw Desc	Image
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☐ 7. Document ID: US 5616602 A

L3: Entry 7 of 12

File: USPT

Apr 1, 1997

US-PAT-NO: 5616602

DOCUMENT-IDENTIFIER: US 5616602 A

TITLE: Topically administrable zinc phthalocyanine compositions

DATE-ISSUED: April 1, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Peter W.	Billingshurst	N/A	N/A	GB2
Love; William G.	Horsham	N/A	N/A	GB2
van der Zanden; Brigitte C. H.	Utrecht	N/A	N/A	NLX

US-CL-CURRENT: 514/410; 424/450, 514/422, 514/863

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5466468 A

L3: Entry 8 of 12

File: USPT

Nov 14, 1995

US-PAT-NO: 5466468

DOCUMENT-IDENTIFIER: US 5466468 A

TITLE: Parenterally administrable liposome formulation comprising synthetic lipids

DATE-ISSUED: November 14, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schneider; Peter	Bottmingen	N/A	N/A	CHX
van Hoogevest; Peter	Riehen	N/A	N/A	CHX
Capraro; Hans G.	Rheinfelden	N/A	N/A	CHX
Isele; Ute	Bad Bellingen	N/A	N/A	DEX

US-CL-CURRENT: 424/450; 424/641, 428/402.2, 514/185

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5458595 A

L3: Entry 9 of 12

File: USPT

Oct 17, 1995



US-PAT-NO: 5458595  
DOCUMENT-IDENTIFIER: US 5458595 A

TITLE: Vaginal speculum for photodynamic therapy and method of using the same

DATE-ISSUED: October 17, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tadir; Yona	Irvine	CA	N/A	N/A
Berns; Michael W.	Trabuco Canyon	CA	N/A	N/A
Monk; Brad J.	Long Beach	CA	N/A	N/A
Profeta; Glen	Rancho Santa Margarita	CA	N/A	N/A
Tromberg; Bruce J.	Irvine	CA	N/A	N/A

US-CL-CURRENT: 606/15; 600/220, 606/14

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5389378 A

L3: Entry 10 of 12

File: USPT

Feb 14, 1995

US-PAT-NO: 5389378  
DOCUMENT-IDENTIFIER: US 5389378 A

TITLE: Benzoporphyrin vesicles and their use in photodynamic therapy

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Madden; Thomas D.	Vancouver	N/A	N/A	CAX

US-CL-CURRENT: 424/450; 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5214036 A

L3: Entry 11 of 12

File: USPT

May 25, 1993

US-PAT-NO: 5214036  
DOCUMENT-IDENTIFIER: US 5214036 A

TITLE: Benzoporphyrin derivatives for photodynamic therapy

DATE-ISSUED: May 25, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allison; Beth A.	Vancouver	N/A	N/A	CAX
Richter; Anna M.	Vancouver	N/A	N/A	CAX
Pritchard; P. Haydn	Vancouver	N/A	N/A	CAX
Levy; Julia G.	Vancouver	N/A	N/A	CAX

US-CL-CURRENT: 514/185; 514/410, 530/359

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWIC	Draw Desc	Image
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☐ 12. Document ID: FI 104951 B1, EP 451103 A, AU 9174046 A, NO 9101281 A, CA 2039477 A, ZA 9102425 A, FI 9101501 A, PT 97215 A, HU 59009 T, JP 04221316 A, NZ 237631 A, AU 634644 B, US 5270053 A, HU 208485 B, EP 451103 B1, DE 59102143 G, ES 2056617 T3, IE 64990 B, US 5466468 A, JP 96005793 B2, IL 97681 A, NO 302735 B1, PH 30330 A

L3: Entry 12 of 12

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May 15, 2000

DERWENT-ACC-NO: 1991-297844  
DERWENT-WEEK: 200031  
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TITLE: Parenterally administrable zinc phthalocyanine compsns. - in form of liposome dispersion contg. synthetic phospholipid

INVENTOR: CAPRARO, H G; ISELE, U ; SCHNEIDER, P ; VAN HOOGEVEST, P ; VANHOOGEVE, P ; CAPRARO, H ; VAN HOOGEVEST, P C H G

PRIORITY-DATA: 1990CH-0001104 (April 3, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FI 104951 B1	May 15, 2000	N/A	000	A61K033/30
EP 451103 A	October 9, 1991	N/A	000	N/A
AU 9174046 A	October 10, 1991	N/A	000	N/A
NO 9101281 A	October 4, 1991	N/A	000	N/A
CA 2039477 A	October 4, 1991	N/A	000	N/A
ZA 9102425 A	November 27, 1991	N/A	000	N/A
FI 9101501 A	October 4, 1991	N/A	000	N/A
PT 97215 A	January 31, 1992	N/A	000	N/A
HU 59009 T	April 28, 1992	N/A	000	A61K031/66
JP 04221316 A	August 11, 1992	N/A	011	A61K031/555
NZ 237631 A	December 23, 1992	N/A	000	A61K031/685
AU 634644 B	February 25, 1993	N/A	000	A61K009/127
US 5270053 A	December 14, 1993	N/A	008	A61K009/127
HU 208485 B	November 29, 1993	N/A	000	A61K031/40
EP 451103 B1	July 13, 1994	G	023	A61K009/127

DE 59102143 G	August 18, 1994	N/A	000	A61K009/127
ES 2056617 T3	October 1, 1994	N/A	000	A61K009/127
IE 64990 B	September 20, 1995	N/A	000	A61K009/127
US 5466468 A	November 14, 1995	N/A	008	A61K009/127
JP 96005793 B2	January 24, 1996	N/A	011	A61K031/555
IL 97681 A	January 31, 1996	N/A	000	A61K009/127
NO 302735 B1	April 20, 1998	N/A	000	A61K009/127
PH 30330 A	April 2, 1997	N/A	000	A61K009/127

T3 INT-CL (IPC): A61K 9/12; A61K 9/127; A61K 9/14; A61K 9/50; A61K 31/40; A61K 31/555; A61K 31/66; A61K 31/685; A61K 33/30 ; A61K 31/685; A61K 31/40; A61K 31/685; A61K 31/555

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